

WHAT IS CLAIMED IS:

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1. A magnetic tape apparatus for controlling a running of a magnetic tape to stop at a reference stop position, comprising:

10 a feed reel shaft and a take-up reel shaft respectively adapted to hold a feed reel and a take-up reel of the magnetic tape;

a magnetic head;

15 a control part controlling the feed reel shaft and the take-up reel shaft so as to reel the magnetic tape; and

a stop position control part displacing a stop position of the magnetic tape from the reference position,

20 wherein said control part activates the stop position control part so as to displace the stop position when said control part stops the running of the magnetic tape.

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2. The magnetic tape apparatus as claimed in claim 1, wherein said control part activates the stop position control part so as to displace a stop
30 position when said control part stops running the magnetic tape to turn over.

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3. The magnetic tape apparatus as claimed in claim 1, wherein said stop position control part

displaces the stop position of the magnetic tape with a distance longer than a length of a contact area of the magnetic tape contacting with the magnetic head from said stop position as a reference position.

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4. The magnetic tape apparatus as claimed
10 in claim 1, wherein said stop position control part randomly selects one stop position from a plurality of predetermined stop positions so that the one stop position is displaced from the reference position.

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5. The magnetic tape apparatus as claimed
in claim 1, wherein said stop position control part
20 selects one stop position from a plurality of predetermined stop positions consecutively so that the selected stop position is displaced from the reference position consecutively.

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6. The magnetic tape apparatus as claimed
in claim 1, wherein said stop position control part
30 changes a supply time interval for supplying power to the feed reel shaft and the take-up reel shaft so that the stop position is displaced from the reference position.

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7. The magnetic tape apparatus as claimed in claim 1, wherein said stop position control part changes a rotational speed of the feed reel shaft and the take-up reel shaft so that the stop position is
5 displaced from the reference position.

10 8. A magnetic tape apparatus for controlling a running of a magnetic tape, the magnetic tape apparatus controllable of a cleaning medium to clean a magnetic head, comprising:
a feed reel shaft and a take-up reel shaft
15 respectively adapted to hold a feed reel and a take-up reel of the cleaning medium;
a magnetic head;
a control part controlling the feed reel shaft and the take-up reel shaft so as to reel the
20 cleaning medium; and
a cleaning section determining part determining a cleaning section on the cleaning medium that is used for a single cleaning step of the magnetic head,
25 wherein said control part controls the feed reel shaft and the take-up reel shaft to clean the magnetic head for the cleaning section by the cleaning medium.

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9. The magnetic tape apparatus as claimed in claim 8, wherein said cleaning medium includes a
35 cleaning area that is longer than the cleaning section required for one cleaning of the magnetic head.

5 10. The magnetic tape apparatus as
claimed in claim 8, wherein said cleaning medium
includes a plurality of cleaning sections each of
which has enough area for one cleaning of the
magnetic head.

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11. The magnetic tape apparatus as
15 claimed in claim 8, wherein said control part reduces
a tension of the cleaning medium more than that
applying in a normal running by independently
controlling the feed reel and the take-up reel when
said control part runs the cleaning medium to the
20 cleaning section determined by the cleaning section
determining part.

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12. A method for controlling a running of
a magnetic tape to stop at a reference stop position,
comprising the steps of:

(a) controlling a feed reel shaft and a
30 take-up reel shaft so as to reel the magnetic tape;
and

(b) displacing a stop position of the
magnetic tape from the reference position,

wherein the step (a) activates the step
35 (b) so as to displace the stop position when said
control part stops the running of the magnetic tape.

13. The method as claimed in claim 12,
5 wherein said step (a) activates the step (b) so as to
displace the stop position when said step (a) stops
running the magnetic tape to turn over.

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14. The method as claimed in claim 12,
wherein said step (b) displaces the stop position of
the magnetic tape at a distance longer than a length
15 of a contact area of the magnetic tape contacting
with the magnetic head from the reference position.

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15. The method as claimed in claim 12,
wherein said step (b) randomly selects one stop
position from a plurality of predetermined stop
positions so that the one stop position is displaced
25 from the reference position.

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16. The method as claimed in claim 12,
wherein said step (b) selects one stop position from
a plurality of predetermined stop positions
consecutively so that the selected stop position is
displaced from the reference position consecutively.

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17. The method as claimed in claim 12,
wherein said step (b) changes a supply time interval
for supplying power to the feed reel shaft and the
5 take-up reel shaft so that the stop position is
displaced from the reference position.

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18. The method as claimed in claim 12,
wherein said step (b) changes a rotational speed of
the feed reel shaft and the take-up reel shaft so
that the stop position is displaced from the
15 reference position.

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19. A method for controlling a running of
a magnetic tape, the method controllable of a
cleaning medium to clean a magnetic head, comprising
the steps of:

(a) controlling the feed reel shaft and
25 the take-up reel shaft so as to reel the cleaning
medium; and

(b) determining a cleaning section on the
cleaning medium that is used for a single cleaning
step of the magnetic head,

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wherein said step (a) controls the feed
reel shaft and the take-up reel shaft to clean the
magnetic head for the cleaning section by the
cleaning medium.

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20. The method as claimed in claim 19,
wherein said step (a) reduces tension of the cleaning
medium more than that applying in a normal running by
independently controlling the feed reel and the take-
5 up reel when said step (a) runs the cleaning medium
to the cleaning section determined by the cleaning
section determining part.